

FIG. 2A

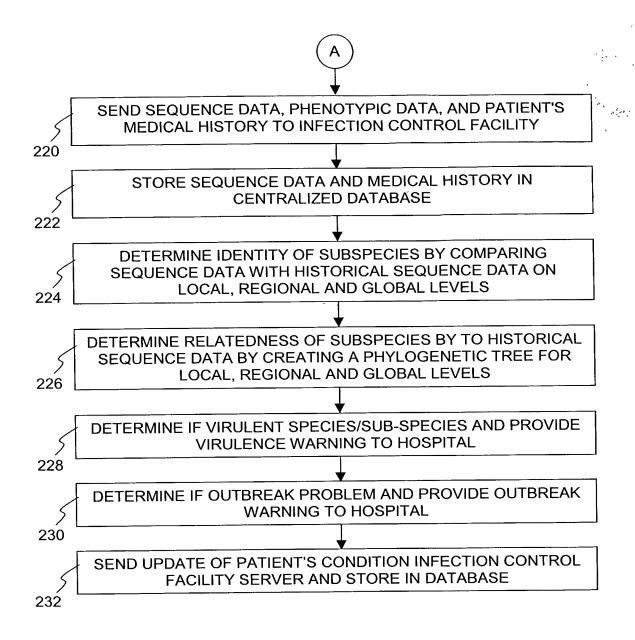


FIG. 2B

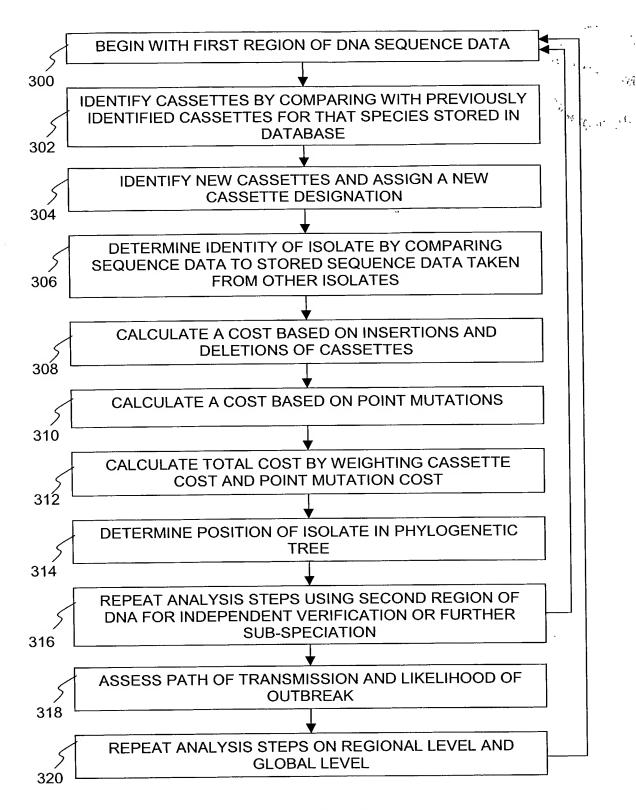


FIG. 3

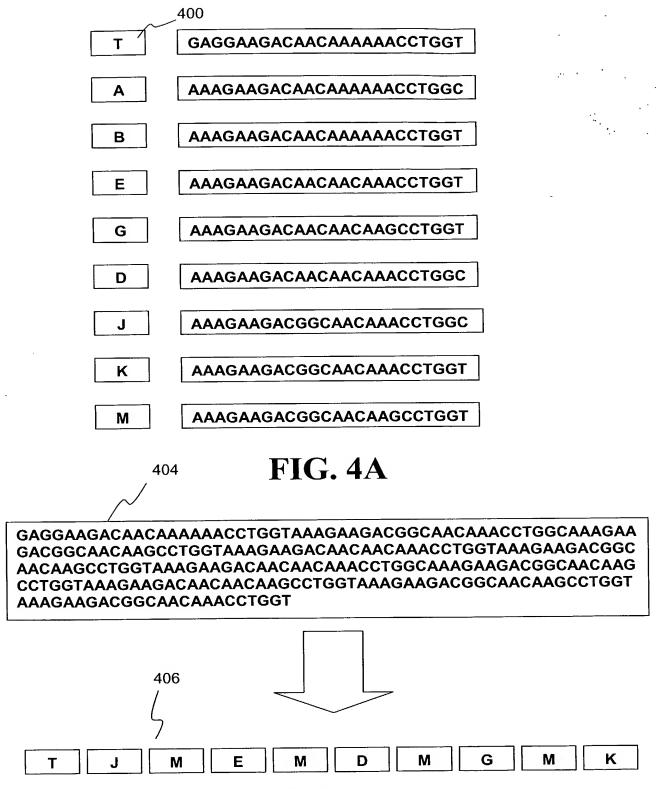


FIG. 4B

I:A:A spa:24	I:A:A spa:2	I:A:A spa:23	I:A:A spa:29	spa:14	I:A:A spa:26	I:A:A spa:60	I:A:A spa:25	K I:A:A spa:28
T M E M D M G M K	M B M C M K	T M E T D M G K	T J M B M D M G G M K		M B M C T	M A M G M K		T K J M B M D M G M K
200	502	504	200	000	510	512	514	<u>o</u>

FIG. 5

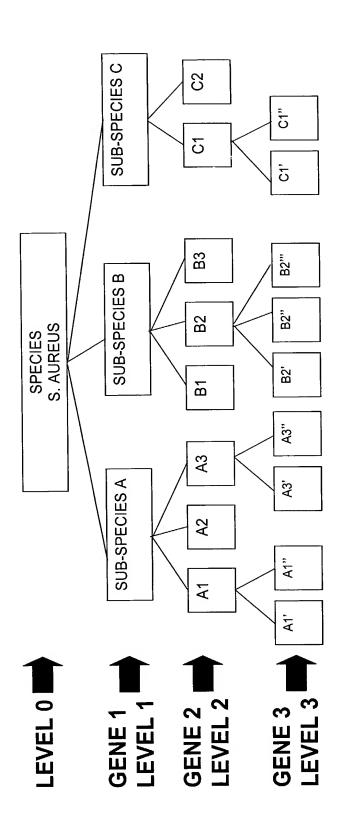


FIG. 6

SPECIES	S. aureus	S. aureus	
SUBSPECIES	A1'	B7"	
SEQ REGION 1	ATTCATAGAT		* * .,.
SEQ REGION 2	CGTACTATCC		
SEQ REGION 3	ATTCGTTATA		*:
REGION 1 PRIMERS			1 Gen - 51
REGION 2 PRIMERS			· · · · · · · · · · · · · · · · · · ·
REGION 3 PRIMERS			
REPEATS REGION 1	TKJMP		
REPEATS REGION 2	ABABA		
REPEATS REGION 3	TYYT		
DATE	June 5, 2000		
PATIENT MEDICAL	Hospitalized in New York		
HISTORY	Hospital, June 2000 for 3		
	weeks, heart surgery		
PATIENT MEDICAL	Patient hospitalized 3	Patient died due to	
UPDATE INFO	weeks for infection and	infection after two	
	released	weeks	
LOCATION	Mt. Sinai Hospital,	New York City Hospital,	1
	Toronto, Burn Ward	ICU	
PHAGE TTYPE			

FIG. 7A

S. AUREUS					
SEQ REGION	REPEAT 1	REPEAT 2	REPEAT 3		
PROTEIN A X _R	AATTCGCCTAGG	AATTCCCCTAGG	TAGGCCGT		
REGION 2		GGTTCCAATAAT	GGTTAACC		
REGION 3					

FIG. 7B

SEQ ID NO 37

Fig. 8A

SEQ ID NO 38

GTGCTTGGGGTGCTACTCTCACTTGTATTGTTGGTTGCGCTGGTT
GTACTTGAAGCACTACTTTCGCTGGTACTACTTGTTTTACTGGTT
GTACTTGGTGTGTTGCTTTCACTTGTTTCACTTGTC
GTACTTGAGGTACTACTTTCGCTGGTACTACTTGTTCACTTGTC
GTACTTGAGGTACTACTTCGCTGGTACTACTGCTCTCACTTGTC
GTGCTTGGCGTGCTGTTTCACTTGCTCACTTGTC
GTGCTTGGCGTGCTGCTTTCGCTGGTACTACTGCTCTCACTTGTC
GTGCTTGAGGTGCTGCTTTCGCTGGTACTACTGCTCTCACTTGTC
GTGCTTGAGGTGCTGCTTTCGCTGGTACTACTGCTCTCACTTGTC
GTGCTTGAGGTACTACTTCGCTGGTACTACTGCTCTCACTTGTC
GTGCTTGAGGTACTACTTCGCTTGTATTACTGGTTTCACTTGTC
GTGCTTGAGGTACTACTTCCCTTGTATTACTGGTTTCACTTGTC
GTGCTTGAGGTGCTGCTTTCACTTGTCTTCACTTGTC
GTGCTTGAGGTGCTGCTTTCACTTGTTTCACTTGTC
GTGCTTGAGGTGCTGCTTTCACTTGTTTCACTTGTC
GTGCTTGAGGTGCTGCTTTCACTTGTTTCACTTGTT
SEQ ID NO 33
GTACTTGAGGTGCTGCTTTCACTTGTTTCACTTGTT
SEQ ID NO 34
GTACTTGAGGTGCTGCTTTCACTTGTTTCACTTGTT
SEQ ID NO 35
GTGCTTGAGGTGCTGCTTTCGCTTGTTTCACTTGTT
SEQ ID NO 35
GTGCTTGAGGTGCTGCTTTCGCTTGTTTCACTTGTT
SEQ ID NO 36

Fig. 8B

MTEFWPLLWLLSFT VLGVLLSLVLLVALV SEQ ID NO 39 VLEALLSLVLLVLLV SEQ ID NO 40 VLGVLLSFVLLVSLV SEQ ID NO 41 VLEVLLSLVLLVSLV SEQ ID NO 42 VLGVLLSLVLLVSLV SEQ ID NO 43 VLGVLLSLVLLVSLV SEQ ID NO 44 VLEVLLSLVLLLSLV SEQ ID NO 45 VLGVLLSLVLLLSLV VLGVLLSLVLLVSLV VLGVLLSFVLLVSLV VLEVLLSLVLLVLLV SEQ ID NO 46 SEQ ID NO 47 VLGVLLSFVLLVSLV VLEVLLSLVLLVSLV VLEVLLSLVLLVVSV SEQ ID NO 48 **DFSTNRSNAVFMVCVN**

Fig. 8C

SEQ ID NO 51

SEO ID NO 59

ATGTTCCAGCCCCTATTAGACGCTTATACAGACAGCACCCGTTTAGATGAAACCGATTATAAGCCCCCA|TTAAATAT AGCCCTAGCCAATTGGTGGCCTTTGGATAAAAGAGAAAGCAAAGGGTTTAGGCGTTTTATCTTGTATTTCATCŢTAA GCCAACGCTACACAATCACCCTCCACCAAAACCCTAACGAACCCTCCGATCTTGTCTTTGGCAGTCCTATTGGATCA GCCAGAAAAATCCTATCCTATCAAAACACTAAAAGGGTGTTTTACACCGGTGAAAATGAAGTCCCTAATTTCAATCT $\tt CTTTGATTACGCCATAGGCTTTGATGAATTGGACTTTAGAGATCGTTATTTTGAGAATGCCTTTATATT\sharp CGCTAGCT$ TGCATTATAAAGCCGAGAGCGTGAATGACACCACCGCGCCCTACAAACTCAAAGACAACAGCCTTTAT¢CTTTAAAA AAGCCCTCCATCATTTTAAAGAAAACCACCCTAATTTATGCGCAGTAGTGAATGATGAGAGCGATCC†TTGAAAAG AGGGTTTGCGAGCTTTGTCGCGAGCAACCCTAACGCTCCTATAAGGAACGCTTTCTATGACGCTTTAAATTCTATTG AGCCAGTTACTGGGGGAGGGAGCGTGAAAAACACTTTAGGCTATAACGTCAAAAACAAGAGCGAGTTT|TTAAGCCAA TACAAATTCAATCTGTGTTTTGAAAACACTCAAGGCTATGGCTATGTAACTGAAAAAATCATTGACGCTTATTTCAG CCACACCATTCCCATTTATTGGGGGGGTCCTAGCGTGGCGAAAGACTTTAACCCTAAGAGTTTTGTGAACGTTTGTG ATTTTAAAAACTTTGATGAAGCGATTGATTACGTGAGATACTTGCACACGCACCCAAACGCTTATTTAGACATGCTC TTATGATCGCCTTTTACAAAACGCTTCGCCTTTATTAGAACTCTCTCAAAACACCACTTTTAAAATCTATCGCAAAG CCTATCAAAAATCCTTACCTTTGTTGCGCACCATAAGGAGATGGGTTAAAAAAATAA

Fig. 9A

SEQ ID NO 52

GATGATTTGAGGGTTAATTAT SEQ ID NO 50
GATGATTTGAGGGTTAATTAT
GATGATTTGAGGGTTAATTAT
GATGATTTGAGGGTTAATTAT

GATGATTTGAGGGTTAATTAT
GATGATTTGAGGGTTAATTAT
GATGATTTGAGGGTTAATTAT
GATGATTTGAGGGTTAATTAT
GATGATTTGAGGGTTAATTAT

Fig. 9B

DLRVNYD SEQ ID NO 53

DLRVNYD

DLRVNYD

DLRVNYD

DLRVNYD

DLRVNYD

DLRVNYD

Fig. 9C

SEQ ID NO 78

PEPSPDPEPEPTPD

PEPSPDPEPEPSPD

PDP

Fig. 10D

SEQ ID NO 76

SEQ ID NO 54

Fig. 10A

SEO ID NO 77

	aama	aama	א היים <i>ד</i>	ата	CHICA THOUGHOUT THE CA COA CHIA A A THOUGHA A A CA COCA A CITCO	
AATAATGAGAATGTTGTACGTTATGGTGGTGGAAGTGCTGATGGTGATTCAGCAGTAAATCCGAAAGACCCAACTCC						
AGGGCCGCCGGTTGAC						
CCAGAACCAAGTCCAGAACCAGAACCAGAACCAACG						
CCAGATCCAGACCCAGACCCAGAACCGGAA						
CCAAGCCCAGACCCGGATCCG					•	
GATTCGGATTCAGACAGT	SEQ					
GACTCAGGCTCAGACAGC	SEQ				•	
<u>GAC</u> TCAGGTTCAGATAGC	SEQ				•	
<u>GAC</u> TCAGAATCAGATAGC	SEQ	ID	ИО	58		
GATTCGGATTCAGACAGT						
GATTCAGATTCAGACAGC	SEQ	ID	ИО	59		
<u>GAC</u> TCAGAATCAGATAGC						
<u>GAT</u> TCAGAATCAGATAGC	SEQ				•	
GACTCAGATTCAGATAGC	SEQ	ID	ИО	61		
GATTCAGATTCAGATAGC	SEQ	ID	ИО	62		
GATTCAGATTCAGATAGC						
GATTCGGATTCAGACAGT						
GATTCAGATTCAGACAGC						
GACTCAGAATCAGATAGC						
GACTCAGAATCAGATAGT	SEQ	ID	NO	63		
GAGTCAGATTCAGACAGT	SEQ	ID	NO	64		
GACTCGGACTCAGACAGT	SEQ	ID	NO	65		
GATTCAGACTCAGATAGC	SEQ	ID	NO	66		
GATTCAGACTCAGATAGC						
GATTCAGATTCAGACAGC						
GACTCAGATTCAGACAGC	SEQ	ID	NO	67		
GACTCAGACTCAGATAGC	SEQ	ID	NO	68		
GACTCAGACTCAGACAGC	SEQ	ID	NO	69		
GACTCAGATTCAGATAGC						
GATTCAGACTCAGACAGC	SEQ	ID	ИО	70		
GACTCAGACTCAGACAGC						
GACTCAGACTCAGATAGC						
GACTCAGATTCAGATAGC						
GATTCAGACTCAGACAGC						
GACTCAGATTCAGATAGC						
GATTCGGACTCAGACAGC	SEO	ID	NO	71		
GATTCAGATTCAGACAGC	_					
GACTCAGACTCGGATAGC	SEO	ID	NO	72		
GATTCAGATTCAGATAGC	~					
GATTCGGATTCAGACAGT						
GATTCAGATTCAGACAGC						
GACTCAGACTCGGATAGC						
GACTCAGACTCAGACAGC						
GATTCAGACTCAGATAGC						
GACTCAGACTCGGATAGC						
GACTCGGATTCAGATAGC	SEO	J.D.	по	73		
GACTCAGACTCAGATAGT			NO			
GACTCCGATTCAAGAGTT	~		NO			
	AGCA	CCA	TCA	AAT	CCTAAAGGTGAAGTAAACCATTCTAATAAGGTATCAAAACA	
ACACCACCAAATAATGAACAGAA	7001					
ACACAMACIGATOCITIACCA						

Fig. 10B

Repeat pattern isolate 1: 1-2-3-4-1-5-4-6-7-8-8-1-5-4-9-10-11-12-12-5-13-14-15-7-16-15-14-7-16-7-17-5-18-8-1-5-18-15-12-18-19-20-21

Fig. 10E

 ${f TCAGCAGTAAATCCGAAAGACCC}$ AACTCCAGGGCCGCCGGTTGACCCAGAACCAAGTCCAGACCCAGAACCAGAACC ${\tt AACGCCAGATCCAGACCCAGACCCAGAACCGGAACCAAGCCCAGACCCGGATCCG}$ GATTCGGATTCAGACAGT GACTCAGGCTCAGACAGC GACTCAGGTTCAGATAGC GACTCAGAATCAGATAGC GATTCGGATTCAGACAGT GATTCAGATTCAGACAGC GACTCAGAATCAGATAGC GATTCAGAATCAGATAGC GACTCAGATTCAGATAGC GATTCAGATTCAGATAGC*GATTCAGAATCAGATAGC* GATTCGGATTCAGACAGT GATTCAGATTCAGACAGC GACTCAGAATCAGATAGC GACTCAGAATCAGATAGT GAGTCAGATTCAGACAGT GACTCGGACTCAGACAGT GATTCAGACTCAGATAGC GATTCAGACTCAGATAGC GATTCAGACTCAGACAGC GATTCAGATTCAGACAGC GACTCAGAATCAGACAGC SEQ ID NO 79 GACTCAGACTCAGATAGC GACTCAGACTCAGACAGC GACTCAGATTCAGATAGC *GATTCAGACTCAGACAGC* GACTCAGACTCAGACAGC GACTCAGACTCAGATAGC GATTCAGACTCAGACAGC GACTCAGATTCAGATAGC GATTCGGACTCAGACAGC GATTCAGATTCAGACAGC GACTCAGACTCGGATAGC GATTCAGATTCAGACAGC GACTCAGACTCGGATAGC *GACTCGGATTCAGATAGT* SEQ ID NO 80 GACTCCGATTCAAGAGTT ACACCACCAAATAATGAACAGAAAGGCACCATCAAATCCTAAAGGTGAAGTAAACCATTCTAATAAGGTATCAAAACA ACACAAAACTGATGCTTTACCAGAAACAGGAGATAAGAGCGAAAACACAAATGCAACTTTATTTGGTGCAATG

Fig. 10C

Repeat pattern isolate 2: 1-2-3-4-1-5-4-6-7-8-6-1-5-4-9-10-11-12-12-16-5-22-14-15-7-16-15-14-16-7-17-5-18-5-18-23-21

Fig. 10F